NC/QC/D-P/2023-24/ C1 Date: 04-03-2023

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvement to drain all round the park in ward no ;14 Dasarahalli Zone.}
Ref.: Material testing/PMC/23-24,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: H. Murthy, Bangalore..

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**175 min**	Shall not be less than 30 min
2	Final setting time	**292 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.78 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.13 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.15 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Kirloskar layout 4 th Main LHS Drain PCC

Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

Executive Engineer
Project Division
Dasarahalli Zone, BBMP

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NC/QC/D-P/2023-24/ PCC1

Date: 04-03-2023

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvement to drain all round the park in ward no ;14 Dasarahalli Zone.}
Ref.: Material testing/PMC/23-24,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: H. Murthy, Bangalore..

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	53.60	0 -20	30- 70
10mm	29.40	0 -5	10- 35
4.75mm	4.60	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	98.10	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	86.70	60-95	75-100	85-100	
01.18	80.20	30-70	55-90	75-100	
600.mic	52.40	15-34	35-59	60-79	
300.mic	27.10	5-20	8-30	12-40	
150.mic	8.80	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.
Kirloskar layout 4 th Main LHS Drain PCC

Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

NEWZEN CONSULTANT Bangalore

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NC/QC/D-P/2023-24/ PCC2

Date: 14-03-2023

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvement to drain all round the park in ward no ;14 Dasarahalli Zone.}
Ref.: Material testing/PMC/23-24,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: H. Murthy, Bangalore..

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	60.10	0 -20	30- 70
10mm	31.40	0 -5	10- 35
4.75mm	3.70	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	97.60	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	81.10	60-95	75-100	85-100	
01.18	58.40	30-70	55-90	75-100	
600.mic	46.70	15-34	35-59	60-79	
300.mic	17.50	5-20	8-30	12-40	
150.mic	9.20	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.
30 th Cross RHS Drain PCC

Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

NEWZEN CONSULTANT * Bangalore *

Scanned with OKEN Scanner

NC/QC/D-P/2023-24/ PCC3

Date: 28-03-2023

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvement to drain all round the park in ward no ;14 Dasarahalli Zone.}
Ref.: Material testing/PMC/23-24,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: H. Murthy, Bangalore..

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	67.30	0 -20	30- 70
10mm	29.70	0 -5	10- 35
4.75mm	3.20	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	95.40	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	88.30	60-95	75-100	85-100	
01.18	59.00	30-70	55-90	75-100	
600.mic	43.60	15-34	35-59	60-79	
300.mic	19.20	5-20	8-30	12-40	
150.mic	8.50	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.
Kirloskar layout park Part-4 3 rd Main LHS Drain PCC

Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

NEWZEN CONSULTANT Bangalore

Scanned with OKEN Scanner

NC/QC/D-P/2023-24/ CE1 **Date: 06-03-2023**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvement to drain all round the park in ward no ;14 Dasarahalli Zone.}
Ref.: Material testing/PMC/23-24,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: H. Murthy, Bangalore..

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**168 min**	Shall not be less than 30 min
2	Final setting time	**292 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.71 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.08 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.74 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Kirloskar layout

Asst. Executive Engineer
Project Division, Dasarahalli Zone
BBMP, Bangalore

NEWZEN CONSULTANT Bangalore

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NC/QC/D-P/2023-24/ FA1

Date: 06-03-2023

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
{Project*: Improvement to drain all round the park in ward no ;14 Dasarahalli Zone.}
Ref.: Material testing/PMC/23-24,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: H. Murthy, Bangalore..

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**97.20**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**89.40**	60-95	75-100	85-100	
01.18	**76.00**	30-70	55-90	75-100	
600. mic	**56.10**	15.34	35-59	60-79	
300.mic	**20.90**	5-20	8-30	12-40	
150.mic	**7.70**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	**Requirements** as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**18.13 %**	-----
2	Silt Content	----	**0.72 %**	Not more than 8%
3	Specific Gravity	----	**2.61**	-------

The result of the materials tested meets the standards and hence can be used for the work.
Kirloskar layout

Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

NEWZEN CONSULTANT Bangalore

Scanned with OKEN Scanner

NC/QC/D-P/2023-24/ CA1 **Date: 06-03-2023**

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.
{Project*: Improvement to drain all round the park in ward no ;14 Dasarahalli Zone.}
Ref.: Material testing/PMC/23-24,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: H. Murthy, Bangalore..

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	**100.00**	100.00	100.00
20 mm	**98.40**	85-100	90 - 100
10 mm	**37.90**	0 - 20	25 - 55
4.75 mm	**6.20**	0 - 5	0 - 10

TABLE 1. 2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	**23.10 %**	Not to exceed 25 %
2.	Crushing value	**28.40 %**	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

The result of the materials tested meets the standards and hence can be used for the work.
Kirloskar layout

Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

NEWZEN CONSULTANT Bangalore

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NC/QC/D-P/2023-24/ S1

Date: 06-03-2023

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 10 and 12 mm **TMT Steel.**
{Project*: Improvement to drain all round the park in ward no ;14 Dasarahalli Zone.}
Ref.: Material testing/PMC/23-24,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: H. Murthy, Bangalore..

TABLE – 1

L o	Details	For 10 mm		For 12 mm	
		Test Results	Min Req. as per IS 1786-2008	Test Results	Min Req. as per IS 1786-2008
01	Observed diameter of bar	**10.0 mm**	10.0 mm	**12.0 mm**	10.0 mm
02	Observed Wt/m Length **Kg/m**	**0.623**	0.567	**0.897**	0.854
03	Proof stress/Yield stress, fy , **N/mm²**	**538.0**	500.0	**547.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**21.90**	12.00	**21.10**	12.00
06	Ultimate Tensile Strength **N/mm²**	**641.0**	545.0	**647.0**	545.0

The result of the materials tested meets the standards and hence can be used for the work.
Kirloskar layout

Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

NEWZEN CONSULTANT Bangalore

Scanned with OKEN Scanner

NC/QC/D-P/2023-24/ CB1 Date: 16-03-2023

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project* Improvement to drain all round the park in ward no ;14 Dasarahalli Zone.}
Ref. Material testing/PMC/23-24,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: H. Murthy, Bangalore..

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	09-03-23	16-03-23	07	22500	350	15.56	**16.07**
	002	"	"	"	"	360	16.00	
	003	"	"	"	"	375	16.67	

The result of the materials tested meets the standards and hence can be used for the work.
Kirloskar layout 4 th Main LHS Raft

Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

NEWZEN CONSULTANTS Bangalore

Scanned with OKEN Scanner

NC/QC/D-P/2023-24/ CB1A

Date: 06-04-2023

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvement to drain all round the park in ward no ;14 Dasarahalli Zone.}
Ref.: Material testing/PMC/23-24,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: H. Murthy, Bangalore..

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	09-03-23	06-04-23	28	22500	495	22.00	**21.48**
	002	"	"	"	"	480	21.33	
	003	"	"	"	"	475	21.11	

The result of the materials tested meets the standards and hence can be used for the work.
Kirloskar layout 4 th Main LHS Raft

Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

NEWZEN CONSULTANTS Bangalore

Scanned with OKEN Scanner

NC/QC/D-P/2023-24/ CB2 Date: 16-03-2023

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvement to drain all round the park in ward no ;14 Dasarahalli Zone.}
Ref.: Material testing/PMC/23-24,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: H. Murthy, Bangalore..

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	09-03-23	16-03-23	07	22500	350	15.56	**15.56**
	002	"	"	"	"	335	14.89	
	003	"	"	"	"	365	16.22	

The result of the materials tested meets the standards and hence can be used for the work
Kirloskar layout Nursery park 3 rd Main RHS Raft

Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

NEWZEN CONSULTANT Bangalore

Scanned with OKEN Scanner

NC/QC/D-P/2023-24/ CB2A

Date: 06-04-2023

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvement to drain all round the park in ward no ;14 Dasarahalli Zone.}
Ref.: Material testing/PMC/23-24,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: H. Murthy, Bangalore..

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	09-03-23	06-04-23	28	22500	470	20.89	**20.67**
	002	"	"	"	"	460	20.44	
	003	"	"	"	"	465	20.67	

The result of the materials tested meets the standards and hence can be used for the work.
Kirloskar layout Nursery park 3 rd Main RHS Raft

Asst. Executive Engineer
Dasarahalli Zone
Project ...

NEWZEN CONSULTANTS Bangalore

Scanned with OKEN Scanner

NC/QC/D-P/2023-24/ CB3

Date: 23-03-2023

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvement to drain all round the park in ward no ;14 Dasarahalli Zone.}
Ref.: Material testing/PMC/23-24,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: H. Murthy, Bangalore..

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	16-03-23	23-03-23	07	22500	340	15.11	**14.74**
	002	"	"	"	"	325	14.44	
	003	"	"	"	"	330	14.67	

The result of the materials tested meets the standards and hence can be used for the work.
Hesaragatta Main Road park 3 rd Main MEI Layout Wall

Asst. Executive Engineer
Project Division, Dasrahalli Zone

NEWZEN CONSULTANTS Bangalore

Scanned with OKEN Scanner

NC/QC/D-P/2023-24/ CB3A

Date: 13-04-2023

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvement to drain all round the park in ward no ;14 Dasarahalli Zone.}
Ref.: Material testing/PMC/23-24,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: H. Murthy, Bangalore..

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	16-03-23	13-04-23	28	22500	470	20.89	**20.96**
	002	"	"	"	"	480	21.33	
	003	"	"	"	"	465	20.67	

The result of the materials tested meets the standards and hence can be used for the work.
Hesaragatta Main Road park 3 rd Main MEI Layout Wall

Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

NEWZEN CONSULTANT Bangalore

Scanned with OKEN Scanner

NC/QC/D-P/2023-24/ CB4

Date: 05-04-2023

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvement to drain all round the park in ward no ;14 Dasarahalli Zone.}
Ref.: Material testing/PMC/23-24,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: H. Murthy, Bangalore..

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	29-04-23	05-04-23	07	22500	345	15.33	**14.67**
	002	"	"	"	"	330	14.67	
	003	"	"	"	"	315	14.00	

The result of the materials tested meets the standards and hence can be used for the work.
2 nd Main Kirloskar Layout park Raft

Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

NEWZEN CONSULTANT Bangalore

Scanned with OKEN Scanner

NC/QC/D-P/2023-24/ CB4A

Date: 26-04-2023

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvement to drain all round the park in ward no ;14 Dasarahalli Zone.}
Ref.: Material testing/PMC/23-24,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: H. Murthy, Bangalore..

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	29-03-23	26-04-23	28	22500	480	21.33	**21.41**
	002	"	"	"	"	475	21.11	
	003	"	"	"	"	490	21.78	

The result of the materials tested meets the standards and hence can be used for the work.
2nd Main Kirloskar Layout park Raft

Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

NEWZEN CONSULTANT Bangalore

Scanned with OKEN Scanner

NC/QC/D-P/2023-24/ CB5 Date: 05-04-2023

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvement to drain all round the park in ward no ;14 Dasarahalli Zone.}
Ref.: Material testing/PMC/23-24,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: H. Murthy, Bangalore..

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	29-03-23	05-04-23	07	22500	370	16.44	**16.00**
	002	"	"	"	"	350	15.56	
	003	"	"	"	"	360	16.00	

The result of the materials tested meets the standards and hence can be used for the work.
13 th Cross RHS Wall

Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

NEWZEN CONSULTANTS Bangalore

Scanned with OKEN Scanner

NC/QC/D-P/2023-24/ CB5A

Date: 26-04-2023

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvement to drain all round the park in ward no ;14 Dasarahalli Zone.}
Ref.: Material testing/PMC/23-24,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: H. Murthy, Bangalore..

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	29-03-23	26-04-23	28	22500	470	20.89	**21.04**
	002	"	"	"	"	485	21.56	
	003	"	"	"	"	465	20.67	

The result of the materials tested meets the standards and hence can be used for the work.
13 th Cross RHS Wall

Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

NEWZEN CONSULTANT Bangalore

Scanned with OKEN Scanner

NC/QC/D-P/2023-24/ CB6

Date: 12-04-2023

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvement to drain all round the park in ward no ;14 Dasarahalli Zone.}
Ref.: Material testing/PMC/23-24,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: H. Murthy, Bangalore..

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	05-04-23	12-04-23	07	22500	350	15.56	**15.93**
	002	"	"	"	"	370	16.44	
	003	"	"	"	"	355	15.78	

The result of the materials tested meets the standards and hence can be used for the work
12 th Cross LHS Wall

Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

NEWZEN CONSULTANT Bangalore

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NC/QC/D-P/2023-24/ CB6A

Date: 03-05-2023

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvement to drain all round the park in ward no ;14 Dasarahalli Zone.}
Ref.: Material testing/PMC/23-24,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: H. Murthy, Bangalore..

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	05-04-23	03-05-23	28	22500	465	20.67	**20.67**
	002	"	"	"	"	455	20.22	
	003	"	"	"	"	475	21.11	

The result of the materials tested meets the standards and hence can be used for the work.
12 th Cross LHS Wall

Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

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NC/QC/D-P/2023-24/ CB7

Date: 18-04-2023

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvement to drain all round the park in ward no ;14 Dasarahalli Zone.}
Ref. Material testing/PMC/23-24,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: H. Murthy, Bangalore..

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	11-04-23	18-04-23	07	22500	360	16.00	**15.78**
	002	"	"	"	"	355	15.78	
	003	"	"	"	"	350	15.56	

The result of the materials tested meets the standards and hence can be used for the work.

4th Main Road From End LHS Wall

Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

NEWZEN CONSULTANT * Bangalore *

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NC/QC/D-P/2023-24/ CB7A

Date: 08-05-2023

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvement to drain all round the park in ward no ;14 Dasarahalli Zone.}
Ref: Material testing/PMC/23-24,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: H. Murthy, Bangalore..

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	11-04-23	08-05-23	28	22500	455	20.22	**20.59**
	002	"	"	"	"	475	21.11	
	003	"	"	"	"	460	20.44	

The result of the materials tested meets the standards and hence can be used for the work.
4th Main Road From End LHS Wall

Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

NEWZEN CONSULTANT * Bangalore *

NEWZEN CONSULTANT BANGALORE, #304, First floor, 6th Cross,Gidadakonenahalli, Viswaneedam Post, Bangalore-560091. CELL NO: +91 8792620231, 080 23240187 EMAIL:newzen576@gmail.com

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NC/QC/D-P/2023-24/ K2

Date: 26-04-2023

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Improvement to drain all round the park in ward no ;14 Dasarahalli Zone.}
Ref.: Material testing/PMC/23-24,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: H. Murthy, Bangalore..

1. PHYSICAL TESTS ON KERB STONES :

	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	85.00	0.398	2384.70	1.70	0.960	29.40	14.97	16.17	15.52	19.41
2	50.00	85.00	0.384	2300.82	1.70	0.960	28.20	14.36	15.51	14.89	18.61
3	50.00	85.00	0.381	2282.84	1.70	0.960	28.70	14.62	15.79	15.15	18.94

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 2 nd Main Kirloskar Layout park

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Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

NEWZEN CONSULTANT BANGALORE, #304, First floor, 6th Cross,Gidadakonenahalli, Viswaneedam Post, Bangalore-560091. CELL NO: +91 8792620231, 080 23240187 EMAIL:newzen576@gmail.com

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NC/QC/D-P/2023-24/ K3

Date: 08-05-2023

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Improvement to drain all round the park in ward no ;14 Dasarahalli Zone.}
Ref.: Material testing/PMC/23-24,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: H. Murthy, Bangalore..

1. PHYSICAL TESTS ON KERB STONES :

	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	85.00	0.402	2408.67	1.70	0.960	27.60	14.06	15.18	14.57	18.22
2	50.00	85.00	0.389	2330.78	1.70	0.960	28.20	14.36	15.51	14.89	18.61
3	50.00	85.00	0.394	2360.74	1.70	0.960	27.90	14.21	15.35	14.73	18.42

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Dmart Behind Road

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Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

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NC/QC/D-P/2023-24/ K4

Date: 08-05-2023

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Improvement to drain all round the park in ward no ;14 Dasarahalli Zone.}
Ref.: Material testing/PMC/23-24,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: H. Murthy, Bangalore..

1. PHYSICAL TESTS ON KERB STONES :

Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
50.00	85.00	0.394	2360.74	1.70	0.960	26.40	13.45	14.52	13.94	17.43
50.00	85.00	0.388	2324.79	1.70	0.960	26.30	13.39	14.47	13.89	17.36
50.00	85.00	0.397	2378.71	1.70	0.960	26.20	13.34	14.41	13.83	17.29

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 13 th Cross RHS

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Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

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NC/QC/D-P/2023-24/ K5

Date: 27-06-2023

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Improvement to drain all round the park in ward no ;14 Dasarahalli Zone.}
Ref.: Material testing/PMC/23-24,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: H. Murthy, Bangalore..

1. PHYSICAL TESTS ON KERB STONES :

Sl No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	85.00	0.388	2324.79	1.70	0.960	25.30	12.89	13.92	13.36	16.70
2	50.00	85.00	0.396	2372.72	1.70	0.960	28.60	14.57	15.73	15.10	18.88
3	50.00	85.00	0.391	2342.76	1.70	0.960	27.20	13.85	14.96	14.36	17.95

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 4th Main Road From End LHS

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Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

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